



**Lennon, Smith, Souleret  
Engineering, Inc.**

Civil Engineers and Surveyors

846 Fourth Avenue, Coraopolis, PA 15108  
(412) 264-4400 • (412) 264-1200 Fax  
[info@lsse.com](mailto:info@lsse.com) • [www.lsse.com](http://www.lsse.com)



11/4/19  
**RECEIVED**  
cc: BOC  
Managing Principals:  
Kevin A. Brett, P.E.  
Ned Mitrovich, P.E.  
Jason E. Stanton, P.E.

October 31, 2019

S. O. No. 0423-04-68

**VIA EMAIL AND U. S. MAIL**

Ms. Renee Diehl  
Pennsylvania Department of Environmental Protection  
Southwest Regional Office  
400 Waterfront Drive  
Pittsburgh, Pennsylvania 15222

**Subject:** **Township of Neville (PSWID 5020029)**  
**Public Notification Certifications**  
**Do Not Use The Water – October 22, 2019; October 23, 2019;**  
**October 24, 2019 and October 25, 2019**

Dear Ms. Diehl:

On behalf of Neville Township, transmitted herewith are the Public Notification (PN) Certifications for the “Do Not Use Water”, “Do Not Drink” and “Problem Corrected” notices.

During routine meter reading post-processing on October 22, 2019 for an industrial user located at 2895 Grand Avenue, Pittsburgh, Pennsylvania, 15225 (Watson Standard), Township Staff observed a metered backflow of approximately 2,000 gallons. Upon review of the service, the backflow was observed to directly connect to the fire suppression system which included a direct connection of a fire suppression foam comprised of National Foam Universal Gold 3% (copy of the MSDS sheet is provided as Attachment A). A double check detector was observed for this service and reported by the property owner to have been tested as recent as July 2019. Subsequently, the water service was closed (valved off) from the public water system on October 22, 2019.

The Pennsylvania Department of Environmental Protection (PaDEP) was notified of the situation and a “Do Not Use The Water” notice was issued on October 22, 2019. Copy of this notice and the PN Certification form are transmitted herewith as Attachment B. The following methods of public notice were utilized:

1. Door to door notification
2. Reverse 911 system
3. Media alert through the Allegheny County Emergency Services

Ms. Renee Diehl  
Pennsylvania Department of Environmental Protection  
October 31, 2019  
Page 2

4. Telephone call to special needs residents and critical facilities
5. Posting on the Township website

Emergency sampling was completed by PaDEP on October 23, 2019. In addition, as requested in consultation with PaDEP, poly- and perfluoroalkyl substances (PFAS) sampling was also completed on October 23, 2019. After consultation with the Township and PaDEP, the "Do Not Use The Water" notice was revised to a "Do Not Drink The Water" notice. Copy of this notice and the PN Certification form are transmitted herewith as Attachment C.

On October 25, 2019, results of the PFAS sampling were reviewed and in consultation with PaDEP, the "Do Not Drink The Water" notice was revised to a "Problem Corrected" notice. Copy of this notice and the PN Certification form are transmitted herewith as Attachment D. Copy of the PFAS sampling results are transmitted herewith as Attachment E. These were also submitted to email to PaDEP on October 25, 2019 upon receipt.

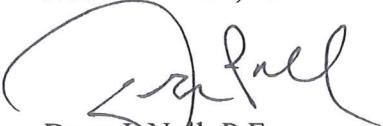
At this writing, the fire suppression service in question remains closed (valved off) from the public water system. The property owner was placed on notice and advised that removal and replacement of the existing double check with a Reduced Pressure Zone Device (RPZD) is required to reinstate the service.

Should you have any questions, please call.

Sincerely,



Ned Mitrovich, P.E.



Drew I. Null, P.E.

NM/DIN:nlk

Attachments

cc/att:  Jeanne M. Creese, Manager/Secretary – Neville Township  
Mark Stewart, Public Works Leader – Neville Township  
Charles M. Means, Esquire – Township Solicitor

# **ATTACHMENT A**

**NATIONAL FOAM UNIVERSAL GOLD  
3% MSDS**

# NF National Foam

P.O. Box 270, Exton, PA 19341-1350, USA  
Ph. 610-363-1400 Fax 610-524-9073  
[www.nationalfoam.com](http://www.nationalfoam.com)

## MATERIAL SAFETY DATA SHEET #MS420

### UNIVERSAL GOLD 1% / 3%

#### ALCOHOL RESISTANT AQUEOUS FILM FORMING FOAM (AR-AFFF) Liquid Concentrate

#### Section 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

##### Material Identification

Product: Universal Gold 3%, Fire Fighting Foam Concentrate  
Synonyms: Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)  
CAS No: Mixture - No single CAS # applicable

##### Company Identification

###### Manufacturer:

National Foam, Inc.

150 Gordon Drive

P.O. Box 270

Exton, PA 19341-1350

Emergency Phone Number (Red Alert): (610) 363-1400 (U.S.A.)

Fax (610) 524-9073

#### Section 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS Number
Water	7732-18-5
(2-Methoxymethylmethoxy) Propanol	34590-94-8
Proprietary mixture of synthetic detergents	No single CAS # applicable
Fluoroalkyl Surfactant	34455-29-3
Polysaccharide	11138-66-2

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### **Section 3. HAZARDS IDENTIFICATION**

#### **Potential Health Effects**

##### **Inhalation**

Vapors are minimal at room temperature. If product is heated or sprayed as an aerosol, airborne material may cause respiratory irritation.

##### **Skin Contact**

Contact with liquid may cause moderate irritation or dermatitis due to removal of oils from the skin.

##### **Eye Contact**

Product is an eye irritant.

##### **Ingestion**

Not a hazard in normal industrial use. Small amounts swallowed during normal handling operations are not likely to cause injury; swallowing large amounts may cause injury or irritation.

##### **Additional Health Effects**

Existing eye or skin sensitivity may be aggravated by exposure.

##### **Carcinogenicity Information**

No data available.

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### **Section 4. FIRST AID MEASURES**

##### **Inhalation**

No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of airborne aerosol mists, remove to fresh air. Seek medical attention if effects occur.

##### **Skin Contact**

In case of skin contact, wash off in flowing water or shower. Launder clothing before reuse.

##### **Eye Contact**

In case of eye contact, flush eyes promptly with water for 15 minutes. Retract eyelids often to ensure thorough rinsing. Consult a physician if irritation persists.

##### **Ingestion**

Swallowing less than an ounce is not expected to cause significant harm. For larger amounts, do not induce vomiting. Give milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

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## **Section 5. FIRE FIGHTING MEASURES**

### **Flammable Properties**

Flash Point – Not applicable

### **Fire and Explosion Hazards**

Avoid contact with water reactive materials, burning metals and electrically energized equipment.

### **Extinguishing Media**

Product is an extinguishing media. Use media appropriate for surrounding materials.

### **Special Fire Fighting Instructions**

This product will produce foam when mixed with water.

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## **Section 6. ACCIDENTAL RELEASE MEASURES**

### **Safeguards (Personnel)**

**NOTE:** Review FIRE FIGHTING MEASURES and HANDLING (Personnel) sections before proceeding with clean-up. Use appropriate Personal Protective Equipment during clean-up.

### **Accidental Release Measures**

#### **Concentrate**

Stop flow if possible. Use appropriate protective equipment during clean up. For small volume releases, collect spilled concentrate with absorbent material; place in approved container. For large volume releases, contain and collect for use where possible. Flush area with water until it no longer foams. Exercise caution, surfaces may be slippery. Prevent discharge of concentrate to waterways. Disposal should be made in accordance with federal, state and local regulations.

#### **Foam/Foam Solution**

See above. Flush with water. Prevent discharge of foam/foam solution to waterways. Do not discharge into biological sewer treatment systems without prior approval. Disposal should be made in accordance with federal, state and local regulations.

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## **Section 7. HANDLING AND STORAGE**

### **Handling (Personnel)**

Avoid contact with eyes, skin or clothing. Avoid ingestion or inhalation. Rinse skin and eyes thoroughly in case of contact. Review HAZARDS and FIRST AID sections.

### **Storage**

Recommended storage environment is between 35°F (2°C) and 120°F (49°C). Store product in original shipping container or tanks designed for product storage.

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## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls

Special ventilation is not required.

### Personal Protective Equipment

#### Respiratory

Recommended exposure limits (OSHA-PEL and ACGIH-TLV) have not been determined for this material. The need for respiratory protection should be evaluated by a qualified health specialist.

#### Protective Clothing

Rubber or PVC gloves recommended.

#### Eye Protection

Safety glasses, face shield or chemical splash goggles must be worn when possibility exists for eye contact. Contact lenses should not be worn. Eye wash facilities are recommended.

#### Other Hygienic Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before re-use.

### Exposure Guidelines

#### Exposure Limits

(2-Methoxymethylethoxy) Propanol (34590-94-8)

##### PEL(OSHA)

100 ppm, 8 hr. TWA Skin

150 ppm, 15 min. STEL Skin

##### TLV (ACGIH)

100 ppm, 8 hr. TWA Skin

150 ppm, 15 min. STEL Skin

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## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical Data

Boiling Point: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Melting Point: Not applicable

Evaporation Rate: <1 (Butyl Acetate = 1.0)  
Solubility in Water: 100%  
pH: 8.0  
Specific Gravity: 1.025 @ 25°C  
Odor: Mild, pleasant  
Form: Viscous liquid  
Color: Amber

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## Section 10. STABILITY AND REACTIVITY

### Chemical Stability

Stable.

### Incompatibility, Materials to Avoid

Avoid use of product on burning metals, electrically-energized equipment and contact with water reactive materials.

### Polymerization

Will not occur.

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## Section 11. TOXICOLOGICAL INFORMATION

### Mammalian Toxicity

#### Ingestion

This material was not toxic when administered to Wistar Albino rats at an acute oral dose of 5g/kg body weight.

#### Eye

Animal testing indicates this material is a primary eye irritant when tested undiluted on New Zealand Albino Rabbits.

#### Skin

Animal testing indicates this material is not a primary skin irritant when tested undiluted on New Zealand Albino Rabbits.

#### Inhalation

No data available at this time.

### Carcinogenic, Developmental, Reproductive, Mutagenic Effects

No data available on this material.

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## **Section 12. ECOLOGICAL INFORMATION**

### **Ecotoxicological Information Aquatic Toxicity**

96 hr. Flow Through LC<sub>50</sub> for Fathead Minnows (*pimephales promelas*) is reported to be greater than 500 ppm.

### **Environmental Fate**

BOD<sub>5</sub> 91,500 mg/kg

COD 290,000 mg/kg

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## **Section 13. DISPOSAL CONSIDERATIONS**

Universal Gold, as sold, is not a RCRA-listed waste or hazardous waste as characterized by 40 CFR 261. However, State and local requirements for waste disposal may be more restrictive or otherwise different from Federal regulations. Therefore, applicable local and state regulatory agencies should be contacted regarding disposal of waste foam concentrate or foam/foam solution.

### **Concentrate**

Do not discharge into biological sewer treatment systems without prior approval. Specific concerns are high BOD load and foaming tendency. Low dosage flow rate or antifoaming agents acceptable to the treatment plant may be helpful. Do not flush to waterways. Disposal should be made in accordance with federal, state and local regulations.

### **Foam/Foam Solution**

Universal Gold foam solution can be treated by waste water treatment facilities. Discharge into biological sewer treatment facilities may be done with prior approval. Specific concerns are high BOD load. Dilution will reduce BOD and COD factors proportionately. Low dosage flow rate or antifoaming agents acceptable to the treatment plant may be helpful. Do not flush to waterways. Disposal should be made in accordance with federal, state and local regulations.

**NOTE:** As a service to our customers, National Foam has approvals in place with disposal facilities throughout the U.S. for waste water treatment and solidification and landfill of our foam liquid concentrates and foam solutions. If required, National Foam, Inc. can also provide information on the disposal of drums used for shipping our concentrates. Please contact National Foam's Risk Management Administrator at (610) 363-1400 for additional information.

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## **Section 14. TRANSPORTATION INFORMATION**

### **Shipping Information**

Proper Shipping Name: Fire Extinguisher Charges or Compounds N.O.I., Class 60  
National Motor Freight Code: 69160 Sub 0

Hazard Class: None

UN Number: None

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## Section 15. REGULATORY INFORMATION

### U.S. Federal Regulations

#### Toxic Substances Control Act (TSCA)

All components of this product are listed in the TSCA inventory.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III

##### Section 302/304

There are no components of this material with known CAS numbers which are on the Extremely Hazardous Substances (EHS) list.

##### Section 311 & 312

Based on available information, this material contains the following components which are classified as the following health and/or physical hazards according to Section 311 & 312:

(2-Methoxymethylethoxy) Propanol 34590-94-8 (Flammability)

##### Section 313

This material does not contain any chemical components subject to Section 313 reporting requirements.

#### COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA)

This material does not contain any components subject to the reporting requirements of CERCLA.

#### OTHER REGULATORY INFORMATION

None.

#### STATE REGULATIONS

#### PENNSYLVANIA RIGHT-TO-KNOW HAZARDOUS SUBSTANCES LIST

PA Hazardous Substances present at levels greater than 1%:

(2-Methoxymethylethoxy) Propanol 34590-94-8

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## Section 16. OTHER INFORMATION

### NFPA Rating

Health 0  
Flammability 0  
Reactivity 0

### ADDITIONAL INFORMATION

#### Revision Summary

2/5/99 Added MSDS number, updated Sections 1,3,4,6,7,9,11,12,13,15.

6/23/97 Updated Section 2 and Section 3.

8/21/95 Revised to ANSI format.

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For further information, see National Foam Product Data Sheet for Universal Gold 1% / 3%.

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The information contained herein is furnished without warranty either expressed or implied. This data sheet is not a part of any contract of sale. The information contained herein is believed to be correct or is obtained from sources believed to be generally reliable. However, it is the responsibility of the user of these materials to investigate, understand and comply with federal, state and local guidelines and procedures for safe handling and use of these materials. National Foam, Inc. shall not be liable for any loss or damage arising directly or indirectly from the use of this product and National Foam, Inc. assumes no obligation or liabilities for reliance on the information contained herein or omissions herefrom.

February 5, 1999

## **ATTACHMENT B**

**“DO NOT USE THE WATER” /  
PN CERTIFICATION (10-22-2019)**

## PUBLIC NOTIFICATION (PN) CERTIFICATION FORM

Public Water System Name: Township of Neville

PWSID Number: 5020029

Date of Violation/Situation: 10/22/2019

Description of Violation/Situation: "Do Not Use The Water", Industrial water meter recorded a backflow on/or about 10-22-2019. The content of this backflow was determined to originate from a fire suppression system.

Notified DEP (or CHD) within 1 hour

Date or NA: 10/22/2019

Consulted with DEP within 24 hours

Date or NA: 10/22/2019

PN Level:  Tier 1       Tier 2       Tier 3Type of notice addressed by this certification:  Initial       Repeat

Methods and date of public notice deliveries to customers:

Method: Door-to-Door distribution to all customers	Date: 10/22/2019
Method: Reverse 911 System	Date: 10/22/2019
Method: Media Alert through Allegheny County Emergency Services	Date: 10/22/2019
Method: Phone call to Special Needs Residents and Critical Facilities	Date: 10/22/2019
Method: Posting on Township Website	Date: 10/22/2019

- The public notice included the required elements: a description of the violation/situation; potential health effects; the population at risk; if alternate water supplies need to be used; when the violation/situation occurred; when the system will resolve the violation/situation; what is being done to correct the problem; actions consumers can take; water system contact information; and language encouraging broader distribution of the notice.
- A copy of each type of notice that was distributed is attached to this certification form

**Certified by:**

As a representative of the Public Water System (PWS) indicated above, I certify that public notification addressing the above violation/situation was distributed to all customers in accordance with the prescribed content, format, deadlines and delivery requirements outlined in Chapter 25 Pa. Code Chapter 109 Subchapter D of the Department of Environmental Protection (DEP)'s regulations.

Signature:  Date: 10/30/2019

Print Name and Title: Mark Stewart, Public Works Leader

Phone Number: 412-264-1977

Complete and submit this form to your local DEP office within 10 days of issuing the public notification described above. DEP District Office and County Health Department contact information can be found within DEP document number 3930-FM-BSDW0560, which can be located by searching for document number 3930-FM-BSDW0560 in DEP's eLibrary at the following link: <http://www.depgreenport.state.pa.us/elibrary/Search>.

For DEP use only. Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

**DRINKING WATER WARNING  
DO NOT USE THE WATER  
NO USE EL AGUA**

ESTE INFORME CONTIENE INFORMACIÓN IMPORTANTE ACERCA DE SU AGUA POTABLE. HAGA QUE ALGUIEN LO TRADUZCA PARA USTED, O HABLE CON ALGUIEN QUE LO ENTienda.

An industrial water meter recorded a backflow into the water system of approximately 2,000 gallons. The content of this backflow is unknown at this time.

## What should I do?

**DO NOT USE THE WATER.** Use bottled water or alternative sources for drinking, bathing, hand washing, making ice, brushing teeth, washing dishes, cooking, or food preparation **until further notice**.

**DO NOT BOIL THE WATER.** As the content of the backflow is currently unknown, boiling, freezing, filtering, or letting water stand is not recommended as a precautionary measure.

If you have specific health concerns, you may wish to consult your doctor.

#### **What happened? What is being done?**

An industrial water meter recorded a backflow into the water system of approximately 2,000 gallons. The content of this backflow is unknown at this time but there is a threat of contamination. The service to the industrial user was closed to prevent further risk of backflow. The Township is investigating the source of the backflow and consulting with the Pennsylvania Department of Environmental Protection.

Drinking water will be available at the Neville Island Fire Department located at 5300 Grand Avenue, Neville Island, PA 15225.

We'll let you know when this Drinking Water Notice has been resolved.

For more information, please contact: Neville Township at 412-264-1977

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by Neville Township.

## Voice Message Details

**Message Name:** [36741558] DO NOT USE WATER

**Description:**

**Caller ID:** 4122641977

**Replays:** 0    **Retries:** 0    **Wait:** 3    **Ring Seconds:** 60

**Waterfall:** No    **Throttling:** No

**Response:** Not Required

### TTY Content:

THIS IS AN IMPORTANT MESSAGE FROM NEVILLE TOWNSHIP. DO NOT USE THE WATER UNTIL FURTHER NOTICE DUE TO AN INDUSTRIAL WATER METER BACKFLOW INTO THE PUBLIC WATER. USE BOTTLED WATER FOR DRINKING, BATHING, HANDWASHING AND USES. DO NOT BOIL WATER. WATER WILL BE AVAILABLE AT NEVILLE VOLUNTEER FIRE STATION.  
**Enable AMD:** No

## Message Content

\* English \*

NEVILLE TOWNSHIP IS AN INDEPENDENT MUNICIPALITY FROM NEVILLE TOWNSHIP NO

**Close**

## **ATTACHMENT C**

**“DO NOT DRINK THE WATER” /  
PN CERTIFICATION (10-23-2019)**

## PUBLIC NOTIFICATION (PN) CERTIFICATION FORM

Public Water System Name: Township of Neville PWSID Number: 5020029

Date of Violation/Situation: 10/22/2019

Description of Violation/Situation: "Do Not Drink The Water", Industrial water meter recorded a backflow on/or about 10-22-2019. The content of this backflow was determined to originate from a fire suppression system.

Notified DEP (or CHD) within 1 hour

Date or NA: 10/23/2019

Consulted with DEP within 24 hours

Date or NA: 10/23/2019

PN Level:  Tier 1       Tier 2       Tier 3

Type of notice addressed by this certification:  Initial       Repeat

Methods and date of public notice deliveries to customers:

Method: Reverse 911 System Date: 10/23/2019

Method: Posting on Township Website Date: 10/23/2019

Method: \_\_\_\_\_ Date: \_\_\_\_\_

Method: \_\_\_\_\_ Date: \_\_\_\_\_

The public notice included the required elements: a description of the violation/situation; potential health effects; the population at risk; if alternate water supplies need to be used; when the violation/situation occurred; when the system will resolve the violation/situation; what is being done to correct the problem; actions consumers can take; water system contact information; and language encouraging broader distribution of the notice.

A copy of each type of notice that was distributed is attached to this certification form

**Certified by:**

As a representative of the Public Water System (PWS) indicated above, I certify that public notification addressing the above violation/situation was distributed to all customers in accordance with the prescribed content, format, deadlines and delivery requirements outlined in Chapter 25 Pa. Code Chapter 109 Subchapter D of the Department of Environmental Protection (DEP)'s regulations.

Signature:  Date: 10/30/2019

Print Name and Title: Mark Stewart, Public Works Leader

Phone Number: 412-264-1977

Complete and submit this form to your local DEP office within 10 days of issuing the public notification described above. DEP District Office and County Health Department contact information can be found within DEP document number 3930-FM-BSDW0560, which can be located by searching for document number 3930-FM-BSDW0560 in DEP's eLibrary at the following link: <http://www.depgreenport.state.pa.us/elibrary/Search>.

For DEP use only. Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

**DRINKING WATER WARNING  
DO NOT DRINK THE WATER  
NO BEBA EL AGUA**

ESTE INFORME CONTIENE INFORMACIÓN IMPORTANTE ACERCA DE SU AGUA POTABLE. HAGA QUE ALGUIEN LO TRADUZCA PARA USTED, O HABLE CON ALGUIEN QUE LO ENTienda.

An industrial water meter recorded a backflow on/or about 10-22-19 into the potable water system of approximately 2,000 gallons. The content of this backflow was determined to originate from a fire suppression system.

## What should I do?

**DO NOT DRINK THE WATER.** Use bottled water or alternative sources for drinking, cooking, or food preparation until further notice. Throw away ice cubes if made with tap water.

**DO NOT BOIL THE WATER.** Boiling, freezing, filtering, or letting the water stand is not recommended. This will not reduce the risk.

If you have specific health concerns, you may wish to consult your doctor.

### **What happened? What is being done?**

An industrial water meter recorded a backflow into the water system from a Fire Suppression System. The service to the industrial user was closed to prevent further risk of backflow. The Township and the Pennsylvania Department of Environmental Protection are sampling the water system to determine if a contamination event occurred. The "Do Not Use The Water" notice issued on 10-22-2019 was revised to a "Do not Drink The Water" notice. Accordingly, bathing, hand washing, brushing teeth, and washing dishes is not prohibited at this time.

Drinking water will be available at the Neville Island Fire Department located at 5300 Grand Avenue, Neville Island, PA. 15225.

We'll let you know when this Drinking Water Notice has been resolved.

For more information, please contact:

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by Neville Township.

# **ATTACHMENT D**

**“PROBLEM CORRECTED” /  
PN CERTIFICATION (10-25-2019)**

## PUBLIC NOTIFICATION (PN) CERTIFICATION FORM

Public Water System Name: Township of Neville PWSID Number: 5020029

Date of Violation/Situation: 10/22/2019

Description of Violation/Situation: "Problem Corrected", Industrial water meter recorded a backflow on/or about 10-22-2019. The content of this backflow was determined to originate from a fire suppression system.

Notified DEP (or CHD) within 1 hour

Date or NA: 10/25/2019

Consulted with DEP within 24 hours

Date or NA: 10/25/2019

PN Level:  Tier 1

Tier 2

Tier 3

Type of notice addressed by this certification:  Initial  Repeat

Methods and date of public notice deliveries to customers:

Method: Door-to-Door distribution to all customers Date: 10/25/2019

Method: Reverse 911 System Date: 10/25/2019

Method: Media Alert through Allegheny County Emergency Services Date: 10/25/2019

Method: Phone call to Special Needs Residents and Critical Facilities Date: 10/22/2019

The public notice included the required elements: a description of the violation/situation; potential health effects; the population at risk; if alternate water supplies need to be used; when the violation/situation occurred; when the system will resolve the violation/situation; what is being done to correct the problem; actions consumers can take; water system contact information; and language encouraging broader distribution of the notice.

A copy of each type of notice that was distributed is attached to this certification form

### Certified by:

As a representative of the Public Water System (PWS) indicated above, I certify that public notification addressing the above violation/situation was distributed to all customers in accordance with the prescribed content, format, deadlines and delivery requirements outlined in Chapter 25 Pa. Code Chapter 109 Subchapter D of the Department of Environmental Protection (DEP)'s regulations.

Signature: 

Date: 10/30/2019

Print Name and Title: Mark Stewart, Public Works Leader

Phone Number: 412-264-1977

Complete and submit this form to your local DEP office within 10 days of issuing the public notification described above. DEP District Office and County Health Department contact information can be found within DEP document number 3930-FM-BSDW0560, which can be located by searching for document number 3930-FM-BSDW0560 in DEP's eLibrary at the following link: <http://www.depgreenport.state.pa.us/elibrary/Search>.

For DEP use only. Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

## DRINKING WATER PROBLEM CORRECTED

### IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

**ESTE INFORME CONTIENE INFORMACIÓN IMPORTANTE ACERCA DE SU AGUA POTABLE. HAGA QUE ALGUIEN LO TRADUZCA PARA USTED, O HABLE CON ALGUIEN QUE LO ENTIENDA.**

As a customer of the Township of Neville, you were notified on October 22, 2019 and October 23, 2019 of a problem with our drinking water and were advised on October 23, 2019 to "Do Not Drink the Water". This was the result of a metered backflow into the water distribution system from an industrial fire suppression system that included a fire fighting foam system.

We are pleased to report that the water quality testing conducted by the Township and by the Pennsylvania Department of Environmental Protection has found that your drinking water meets US EPA safe drinking water standards as well as US EPA health advisory levels for the components of the fire fighting foam which may have entered the system. **The problem has been corrected and the "Do Not Drink the Water" notice/restriction has been removed for all customers.**

We apologize for any inconvenience and thank you for your patience.

As always, you may contact: Neville Township  
at 412-264-1977

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*

This notice is being sent to you by Neville Township.

# **ATTACHMENT E**

## **PFAS SAMPLING RESULTS**



Lancaster Laboratories  
Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6765 • [www.EurofinsUS.com/LancLabsEnv](http://www.EurofinsUS.com/LancLabsEnv)



## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Neville Township  
5050 Grand Ave  
Pittsburgh PA 15225

Report Date: October 25, 2019 09:10

**Project: AFFF**

Account #: 44902  
Group Number: 2070557  
PO Number: 24021888  
State of Sample Origin: PA

Electronic Copy To	Lennon, Smith, Souleret Eng	Attn: Ned Mitrovich
Electronic Copy To	Lennon Smith Souleret Eng	Attn: Larry Lennon
Electronic Copy To	Lennon Smith Souleret Eng	Attn: Drew Null
Electronic Copy To	Neville Township	Attn: Jeanne Creese

Respectfully Submitted,

*Mariissa Williams*  
Mariissa Williams  
Project Manager

(717) 556-7246

To view our laboratory's current scopes of accreditation please go to <https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/>. Historical copies may be requested through your project manager.



Lancaster Laboratories  
Environmental

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## SAMPLE INFORMATION

### Client Sample Description

1-716 Grab Water  
2-716 Grab Field Blank Water  
5-712 Grab Water  
8-712 Grab Field Blank Water  
9-713 Grab Water  
11-713 Grab Field Blank Water

### Sample Collection

#### Date/Time

10/23/2019 17:48	1181761
10/23/2019 17:51	1181762
10/23/2019 18:09	1181765
10/23/2019 18:11	1181768
10/23/2019 18:21	1181769
10/23/2019 18:22	1181771

### ELLE#

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



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# Analysis Report

Sample Description: 1-716 Grab Water  
AFFF

Neville Township  
ELLE Sample #: PW 1181761  
ELLE Group #: 2070557  
Matrix: Water

Project Name: AFFF

Submittal Date/Time: 10/23/2019 22:45  
Collection Date/Time: 10/23/2019 17:48

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous	EPA 537 Version 1.1	ng/l	ng/l	ng/l	
14070	Perfluorobutanesulfonic acid	375-73-5	0.92 J	0.45	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	0.57 J	0.45	1.8	1
14070	Perfluorohexanesulfonic acid	355-46-4	0.48 J	0.45	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.45	1.8	1
14070	Perfluoroctanesulfonic acid	1763-23-1	1.2 J	0.45	1.8	1
14070	Perfluoroctanoic acid	335-67-1	1.3 J	0.45	1.8	1

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	6 PFAS - Emergency	EPA 537 Version 1.1	1	19297008	10/24/2019 19:25	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19297008	10/24/2019 06:45	Pamela Rothharp	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 2-716 Grab Field Blank Water  
AFFF

Neville Township  
ELLE Sample #: PW 1181762  
ELLE Group #: 2070557  
Matrix: Field Blank Water

**Project Name:** AFFF

Submittal Date/Time: 10/23/2019 22:45  
Collection Date/Time: 10/23/2019 17:51

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>		ng/l	ng/l	ng/l	
14070	Perfluorobutanesulfonic acid	375-73-5	N.D.	0.46	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.46	1.8	1
14070	Perfluorohexanesulfonic acid	355-46-4	N.D.	0.46	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.46	1.8	1
14070	Perfluoroctanesulfonic acid	1763-23-1	N.D.	0.46	1.8	1
14070	Perfluoroctanoic acid	335-67-1	N.D.	0.46	1.8	1

#### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	6 PFAS - Emergency	EPA 537 Version 1.1	1	19297008	10/24/2019 19:36	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19297008	10/24/2019 06:45	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result



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# Analysis Report

Sample Description: 5-712 Grab Water  
AFFF

Neville Township  
ELLE Sample #: PW 1181765  
ELLE Group #: 2070557  
Matrix: Water

Project Name: AFFF

Submittal Date/Time: 10/23/2019 22:45  
Collection Date/Time: 10/23/2019 18:09

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous	EPA 537 Version 1.1	ng/l	ng/l	ng/l	
14070	Perfluorobutanesulfonic acid	375-73-5	0.93 J	0.44	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	0.57 J	0.44	1.8	1
14070	Perfluorohexanesulfonic acid	355-46-4	N.D.	0.44	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.44	1.8	1
14070	Perfluoroctanesulfonic acid	1763-23-1	1.1 J	0.44	1.8	1
14070	Perfluoroctanoic acid	335-67-1	1.2 J	0.44	1.8	1

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	6 PFAS - Emergency	EPA 537 Version 1.1	1	19297008	10/24/2019 19:48	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19297008	10/24/2019 06:45	Pamela Rothharp	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 8-712 Grab Field Blank Water  
**AFFF**

Neville Township  
ELLE Sample #: PW 1181768  
ELLE Group #: 2070557  
Matrix: Field Blank Water

**Project Name:** AFFF

**Submittal Date/Time:** 10/23/2019 22:45  
**Collection Date/Time:** 10/23/2019 18:11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	<b>LC/MS/MS Miscellaneous</b>	<b>EPA 537 Version 1.1</b>	ng/l	ng/l	ng/l	
14070	Perfluorobutanesulfonic acid	375-73-5	N.D.	0.44	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.44	1.8	1
14070	Perfluorohexanesulfonic acid	355-46-4	N.D.	0.44	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.44	1.8	1
14070	Perfluoroctanesulfonic acid	1763-23-1	N.D.	0.44	1.8	1
14070	Perfluoroctanoic acid	335-67-1	N.D.	0.44	1.8	1

#### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	6 PFAS - Emergency	EPA 537 Version 1.1	1	19297008	10/24/2019 19:59	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19297008	10/24/2019 06:45	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result



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# Analysis Report

**Sample Description:** 9-713 Grab Water  
AFFF

Neville Township  
ELLE Sample #: PW 1181769  
ELLE Group #: 2070557  
Matrix: Water

**Project Name:** AFFF

Submittal Date/Time: 10/23/2019 22:45  
Collection Date/Time: 10/23/2019 18:21

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	<b>LC/MS/MS Miscellaneous</b>	<b>EPA 537 Version 1.1</b>	ng/l	ng/l	ng/l	
14070	Perfluorobutanesulfonic acid	375-73-5	0.86 J	0.44	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	0.58 J	0.44	1.8	1
14070	Perfluorohexanesulfonic acid	355-46-4	0.62 J	0.44	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.44	1.8	1
14070	Perfluoroctanesulfonic acid	1763-23-1	1.1 J	0.44	1.8	1
14070	Perfluoroctanoic acid	335-67-1	1.3 J	0.44	1.8	1

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	6 PFAS - Emergency	EPA 537 Version 1.1	1	19297008	10/24/2019 20:11	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19297008	10/24/2019 06:45	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result



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# Analysis Report

Sample Description: 11-713 Grab Field Blank Water  
AFFF

Neville Township  
ELLE Sample #: PW 1181771  
ELLE Group #: 2070557  
Matrix: Field Blank Water

Project Name: AFFF

Submittal Date/Time: 10/23/2019 22:45  
Collection Date/Time: 10/23/2019 18:22

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous	EPA 537 Version 1.1	ng/l	ng/l	ng/l	
14070	Perfluorobutanesulfonic acid	375-73-5	N.D.	0.45	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.45	1.8	1
14070	Perfluorohexanesulfonic acid	355-46-4	N.D.	0.45	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.45	1.8	1
14070	Perfluoroctanesulfonic acid	1763-23-1	N.D.	0.45	1.8	1
14070	Perfluoroctanoic acid	335-67-1	N.D.	0.45	1.8	1

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	6 PFAS - Emergency	EPA 537 Version 1.1	1	19297008	10/24/2019 20:22	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19297008	10/24/2019 06:45	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: Neville Township  
Reported: 10/25/2019 09:10

Group Number: 2070557

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result ng/l	MDL** ng/l	LOQ ng/l
Batch number: 19297008			
Perfluorobutanesulfonic acid	N.D.	0.50	2.0
Perfluoroheptanoic acid	N.D.	0.50	2.0
Perfluorohexanesulfonic acid	N.D.	0.50	2.0
Perfluorononanoic acid	N.D.	0.50	2.0
Perfluoroctanesulfonic acid	N.D.	0.50	2.0
Perfluoroctanoic acid	N.D.	0.50	2.0

### LCS/LCSD

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 19297008									
Perfluorobutanesulfonic acid	70.8	67.12	70.8	60.86	95	86	70-130	10	30
Perfluoroheptanoic acid	80	66.77	80	70.11	83	88	70-130	5	30
Perfluorohexanesulfonic acid	72.96	68.93	72.96	66.54	94	91	70-130	4	30
Perfluorononanoic acid	80	72.07	80	72.07	90	90	70-130	0	30
Perfluoroctanesulfonic acid	74.04	68.15	74.04	63.77	92	86	70-130	7	30
Perfluoroctanoic acid	80	71.95	80	69.95	90	87	70-130	3	30

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 6 PFAS - Emergency  
Batch number: 19297008

	13C2-PFHxA	13C2-PFDA	D5-NeFOSAA
1181761	88	99	84
1181762	96	101	95
1181765	89	98	90
1181768	102	103	92
1181769	90	107	89

\*- Outside of specification

\*\*-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Neville Township  
Reported: 10/25/2019 09:10

Group Number: 2070557

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 6 PFAS - Emergency

Batch number: 19297008

	13C2-PFHxA	13C2-PFDA	D5-NeFOSAA
1181771	98	106	97
Blank	93	100	84
LCS	90	99	84
LCSD	93	99	82
Limits:	70-130	70-130	70-130

\*- Outside of specification

\*\*-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.  
(2) The unspiked result was more than four times the spike added.

esson top -> lesson -t

## Chain of Custody Record

eurofins

Environment Testing  
TestAmerica

Client Information		Sample# MARC STENANT (MSA)		Lab P/M: Howell, Leslie	Carrier Tracking No(s):	
Client Contact:	Mariissa Williams	Phone:	412 269 8235	E-Mail: Leslie.howell@testamericainc.com	Page: 1 of 1	
Company:	Eurofins Lancaster Laboratories Env LLC	Due Date Requested:	<b>A/SAP</b>			
Address:	2425 New Holland Pike	TAT Requested (days):				
City:	Lancaster	PO #:				
State, Zip:	PA, 17601	Purchase Order not required				
Phone:	717-556-7383(Tel)	WO #:				
Email:	MariissaWilliams@eurofinsUS.com	Project #:	24021888			
Project Name:	PFAS bottles	SSOW#:				
Site:						
<b>PFAS</b>						
Analysis Requested						
<input checked="" type="checkbox"/> Total Number of containers <input type="checkbox"/> Perform MS/MSD (Yes or No)						
<b>DISTANCE FROM SOURCE</b> <b>Special Instructions/Note:</b> <p>Other: Other:</p>						
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sediment, Oil, Groundwater, Air, etc.)	Preservation Code	
1 - 716	10/23/19	5:48 AM	G	Water	16,125 ft	
2 - 716		5:51 PM	G	Water	11	
3 - 716		5:51 PM	G	Water	11	
4 - 716		5:56 PM	G	Water	11	
5 - 712		6:09 PM	G	Water	12,250 ft	
6 - 712		6:10 PM	G	Water	11	
7 - 712		6:10 PM	G	Water	11	
8 - 712		6:11 PM	G	Water	11	
9 - 713		6:21 PM	G	Water	9,000 ft	
10 - 713		6:21 PM	G	Water	11	
11 - 713		6:22 PM	G	Water	11	
12 - 713		6:22 PM	G	Water	11	
Time: _____						
<input type="checkbox"/> Possible Hazard Identification <input type="checkbox"/> Non-Hazard Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						
Deliverable Requested: I, II, III, IV, Other (specify) _____						
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time:	Company: _____	Received by: _____	Date/Time: _____	Company: _____	
Relinquished by:	Date/Time:	Company: _____	Received by: _____	Date/Time: _____	Company: _____	
Relinquished by:	Date/Time:	Company: _____	Received by: _____	Date/Time: _____	Company: _____	
Custody Seals intact:	Custody Seal No.: _____					
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Cooler Temperature(s) °C and Other Remarks: _____						
Page 11 of 14						
<input type="checkbox"/> Sample Disposal / A fee may be assessed if samples are retained longer than 1 month <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
<b>Special Instructions/QC Requirements:</b> <p>Other: Other:</p>						
Page 11 of 14						

Sample Administration  
Receipt Documentation Log

Doc Log ID: 263821

\*263 821\*

Group Number(s):

2070557

## Delivery and Receipt Information

Delivery Method:	<u>Client Drop Off</u>	Arrival Date:	<u>10/23/2019</u>
Number of Packages:	1	Number of Projects:	1

## Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Shalynn Ponzo*

## Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	192099059	2.9	IR	Wet	Y	Loose	N

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mL</b>	milliliter(s)
<b>C</b>	degrees Celsius	<b>MPN</b>	Most Probable Number
<b>cfu</b>	colony forming units	<b>N.D.</b>	non-detect
<b>CP Units</b>	cobalt-chloroplatinate units	<b>ng</b>	nanogram(s)
<b>F</b>	degrees Fahrenheit	<b>NTU</b>	nephelometric turbidity units
<b>g</b>	gram(s)	<b>pg/L</b>	picogram/liter
<b>IU</b>	International Units	<b>RL</b>	Reporting Limit
<b>kg</b>	kilogram(s)	<b>TNTC</b>	Too Numerous To Count
<b>L</b>	liter(s)	<b>µg</b>	microgram(s)
<b>lb.</b>	pound(s)	<b>µL</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>umhos/cm</b>	micromhos/cm
<b>meq</b>	milliequivalents	<b>MCL</b>	Maximum Contamination Limit
<b>mg</b>	milligram(s)		
<	less than		
>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report
B	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q2	MS/MSD Low
Q3	MS/MSD High
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.